

gravitee.io

Future-proof **your API strategy**

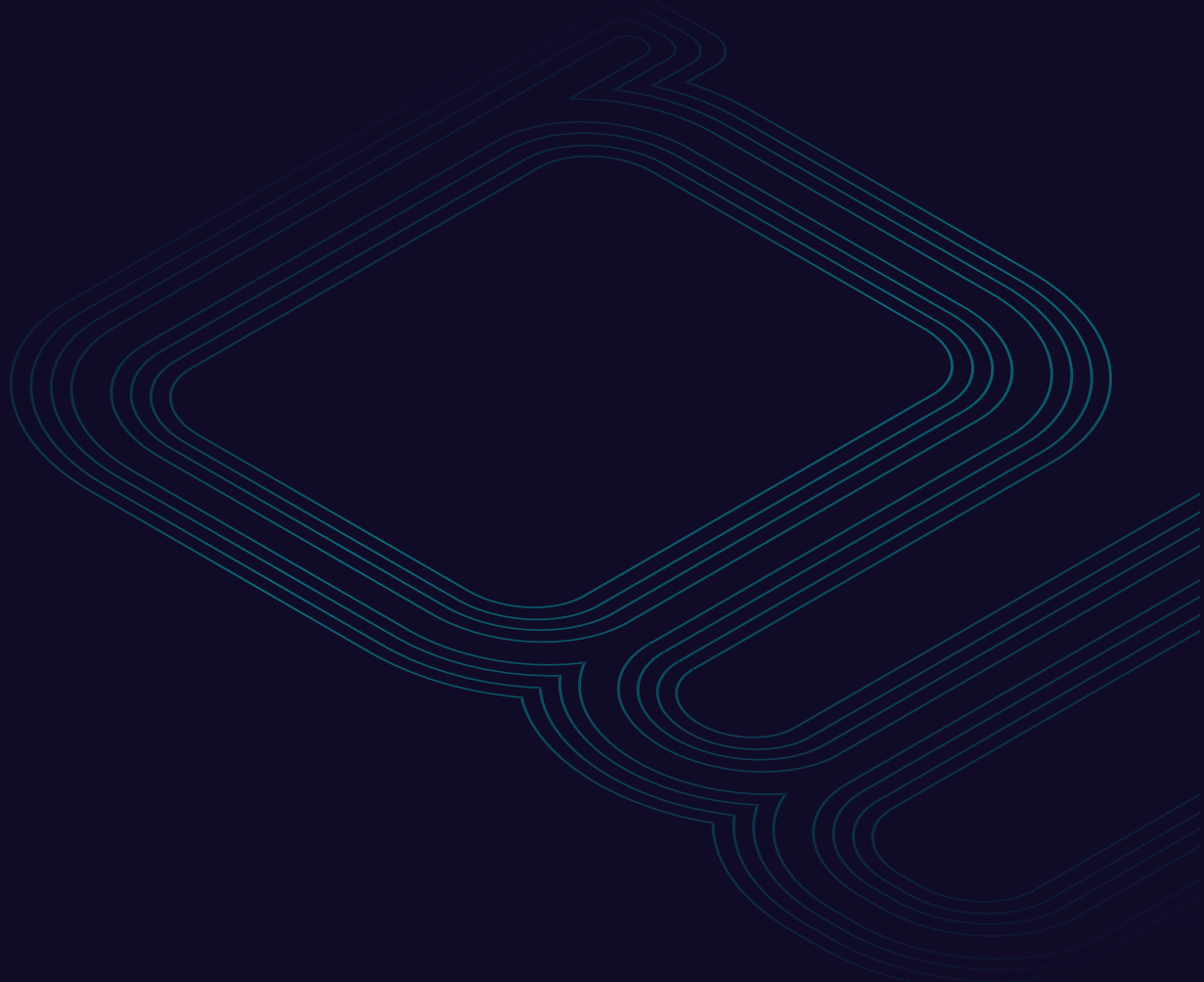


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An introduction
to the introduction:
**Sort of a manifesto
on transparency**

At Gravitee, we really value transparency. From our public commitment to open source offerings that actually drive value, to our Marketing and Product collateral, we strive to never try and “pull the wool over your eyes.”

That’s why we’re writing this introduction to the introduction; our goal is to completely and transparently describe our goals of this long (but we think valuable) piece of content. If, after reading this, you feel that you aren’t interested, please do feel free to toss it into the trash (or rather, your virtual recycling bin).

This piece of content is meant to do a few things:

- Communicate our understanding of the API and event management and security space, where it’s going, and the challenges that certain trends will bring
- Introduce Gravitee.io’s response to these market trends and map our solutions onto specific challenges that you might be facing and/or are bracing yourself to face
- Expand further upon the features and capabilities that make up our solutions to these challenges
- Add some credibility to our claims with a quote or two from customers who are actively using Gravitee.io to solve for the very challenges that we’ve laid out

A quick note on talking about features:

We are often told to “not market features, and, instead, to market value.” However, features are cool, and we realize that, while some folks don’t want to learn about them, some do care about what the product can actually do. If you are part of the first camp, we recommend skipping the features section. If you want to learn about features, we’ve included a detailed feature menu for each major area of our platform.

If, at any time you decide that you’ve read enough and want to contact us, you can do that here: gravitee.io/contact-us

If you want to go ahead and book a demo, do that here: gravitee.io/demo

Now, on to the main content.

-The Gravitee Marketing team

The real intro:

Modernization is imminent. Are you prepared?

Organizations have either already-recognized or are recognizing the need to adopt real-time, event-driven architectures. This is due to new consumer demands for real-time, connected data experiences, and this applies to both B2B and B2C consumers.

While this modernization is evident, “lift and shift” initiatives never happen in the blink of an eye. Realistically, the vast majority of organizations will still have to maintain and support certain API ecosystems across the business built on more traditional protocols. Eventually, these will either have to be replaced by or somehow managed and secured in conjunction with modern, event-driven architectures and APIs.

And this means complexity that brings a ton of challenges. Here are the top three that we’ve seen after talking with our customers and the wider market:

Too many protocols to manage

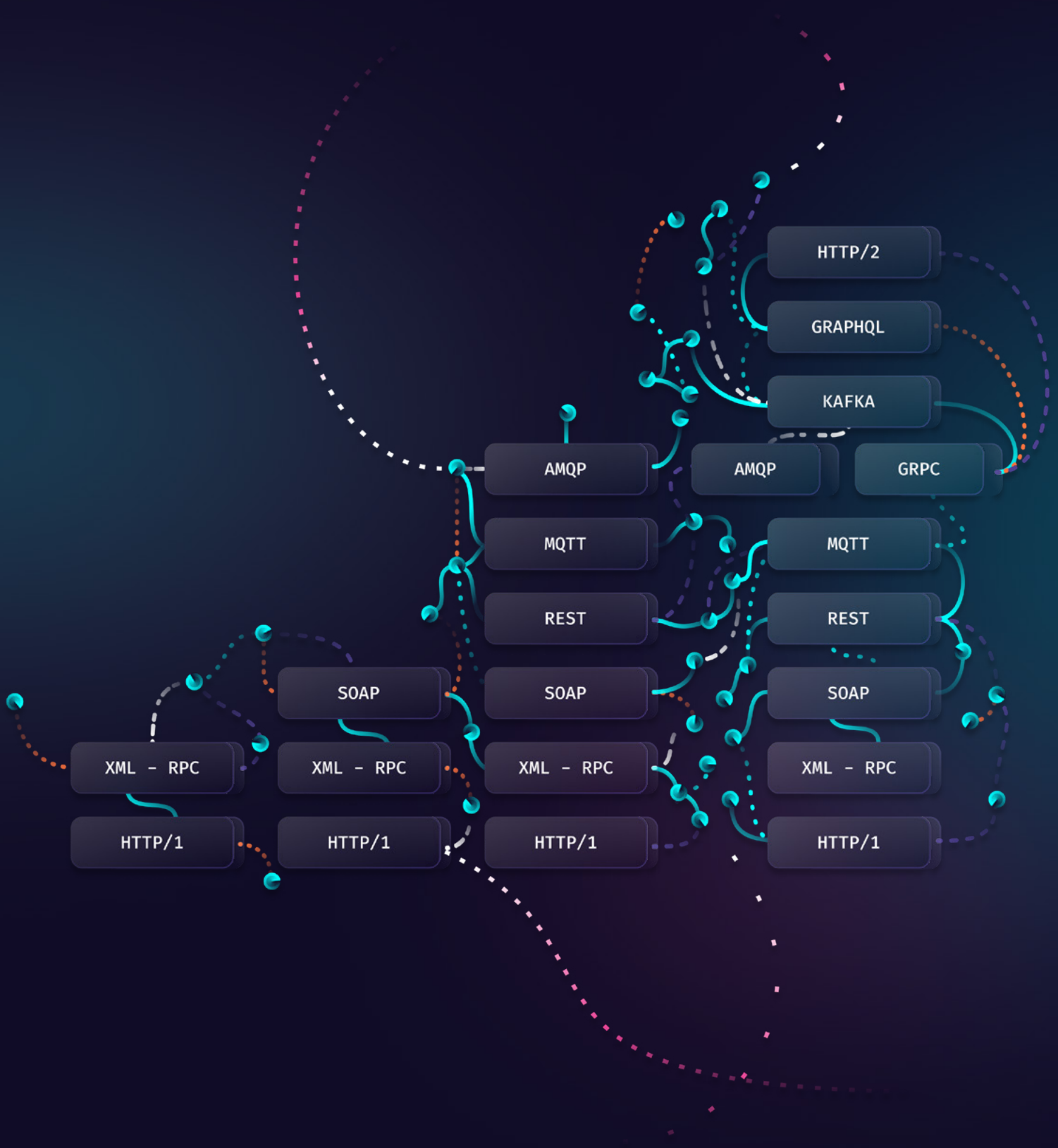
While new protocols and backend services can definitely make products and technical services better and more real-time, they can introduce endless headaches to Dev and Product teams as they try and figure out ways to manage and secure APIs built on these newer technologies. Farther up the chain, CTOs, CSOs, and CIOs are left wondering: “I know that this modernization is coming; are we going to be ready?”

Modernization requires a ton of technical skill that’s in short supply

Whether you are trying to build your own solution to bridge the gap between more traditional APIs and event-based APIs, or looking to invest in vendor tooling, these options typically still require a vast amount of technical skills. You might be able to find Devs who know the ins and outs of REST, but what about gRPC? Or MQTT?

A Gateway is one thing, but what about API Security?

It’s now clear that APIs have become a leading security threat for anybody with a mobile or web application. As the API and event landscape continues to explode, part of taming API complexity must be introducing the proper Security mechanisms. However, like the challenges posed to traditional API Management functions, the explosion of new protocols and services are leaving teams wondering: “How am I supposed to standardize my API Security practices across this new, vast and complex API and event landscape?”



Why we exist

Future-proofing your API strategy

Gravitee was built to help you bridge the API management, security, and governance gaps brought on by the co-existence of both more traditional API protocols and more modern, streaming and event-driven APIs.

With Gravitee, you can design, manage, secure, productize, monitor, and integrate your API landscape—no matter what protocols and backend services that your teams are building with. And that means you can be confident that you're ready for whatever the API and event universe throws (or streams) at you.

The value you get from the platform



MODERNIZE, EFFORTLESSLY.

Ease of use is a north star of ours, and that's why we've built a solution that "abstracts out" the complexities you'd typically face when trying to manage and secure APIs built on multiple sets of consumer and backend level protocols and services.



IMPROVE YOUR SECURITY POSTURE.

Lock down your API and event landscape with Identity and Access Management solutions. Rest assured that your API and event landscape are safe, secure, and only accessed by those API consumers that drive value for your business.



REDUCE TOTAL COST OF OWNERSHIP.

Say goodbye to needing separate tools for managing APIs built on different protocols and services and for securing API and application access. Gravitee brings what you need into one, easy-to use, and easy-to-scale platform.



BE A PART OF SOMETHING BIGGER.

Gravitee is committed to our open source beginnings. We've built the most comprehensive open source API Management and Access Management solution that includes more than just a command line interface. Come join a community that drives over 350,000 Docker pulls per month, and contribute to the future of API and Event Management and Security.



GENERATE NEW REVENUE STREAMS.

Organizations use Gravitee to create and deliver API-and-platform-driven services to their customers. By using Gravitee to expose and package APIs to customers, partners, and other consumers, you can create a platform economy of digital services that can generate revenue for your organization at rapid time to market and higher ROI.

Where we differentiate

Some people ask us: “Why do we need yet another API Management platform?” Our answer to that is: “We saw what the market had to offer, and, while there are some great solutions out there, we felt that the platforms available didn’t solve for many of the use cases that many organizations need.”

We took a different approach to our platform than some of the earlier entrants (and some of the later entrants, too). Here’s how we understand our differentiation:

1

A commitment to comprehensive open source solutions

We are the most comprehensive API Management solution out there. Full stop. Our open source API Management and Gateway solution comes with over 50 baked-in plugins, offers a fully-featured console and UI, and we layer in open source Access Management on top.

2

Feature and product breadth

Between open source and enterprise offerings, we offer more API and Event relevant solutions than traditional API Management vendors, such as API Management & Gateway, protocol mediation, Identity and Access Management, API Design, API Monitoring, API Productization, API Security, and more.

3

We bridge the gap

Gravitee has focused on building a platform that can bring all of your more traditional SOAP, REST, etc. APIs under the same roof as your event-driven APIs for comprehensive management, security, and governance.

4

Ease of use & time to value

We’ve built our solutions to be truly easy to use, committed to the idea of “abstracting out” the difficulties associated with Designing APIs, making different consumer and backend level protocols and services “shake hands,” and more. This makes Gravitee more easily adopted and scaled across any organization.

5

A commitment to security and data privacy

Our platform is totally FAPI-grade and ready for the most secure of security postured enterprises. Whether you’re in the public sector or looking for open-banking-ready solutions, Gravitee offers top notch security, data privacy, and compliance.

6

Truly community and customer-focused

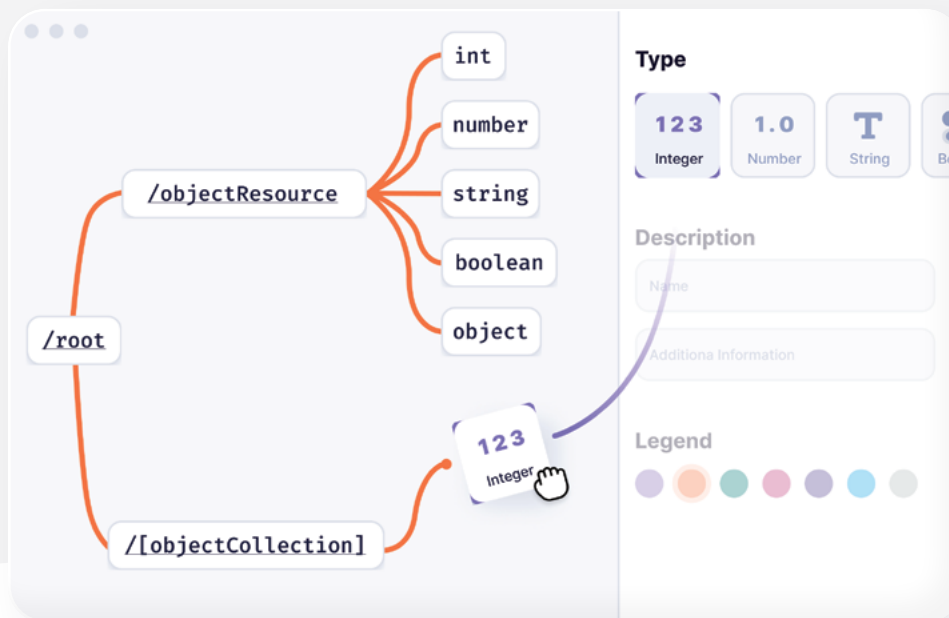
We take a true community-and-customer-first approach with dedicated customer success and support services and ample opportunities to influence roadmap and product direction.

For the “feature-interested”

While this section doesn't cover every feature and capability, it does capture what our customers and community typically tell us are the highlights.

API Designer

(Free version and enterprise versions)



The Gravitee API Designer is a no-code, visual API Design solution that helps teams, no matter their technical skill, make the move to API Design-first faster.

MINDMAP

API Designer provides a mind map where you can easily structure and visualize a data model that will be exposed by your API.

AUTOMATIC MOCKS

After design, the specification and deployment on your API Gateway are generated with automatic mocks according to any examples already given.

ATTRIBUTE TRANSFORMATION

Transform your attributes into resources for API exposure and specify the APIs operations in order to manipulate those resources that correspond to your data model.

ATTRIBUTE CONFIGURATION

Define and configure your attributes, all without a single line of code.

ONE CLICK DEPLOYMENT AND PUBLISHING

Deploy your design to your APIM platform and publish your designed API to your Gravitee Developer Portal for ultimate discoverability and ease of consumption.

MODEL DESIGN

Within the mind map, you can build your model and the API Designer will generate your specification for you.

SAAS ACCESS

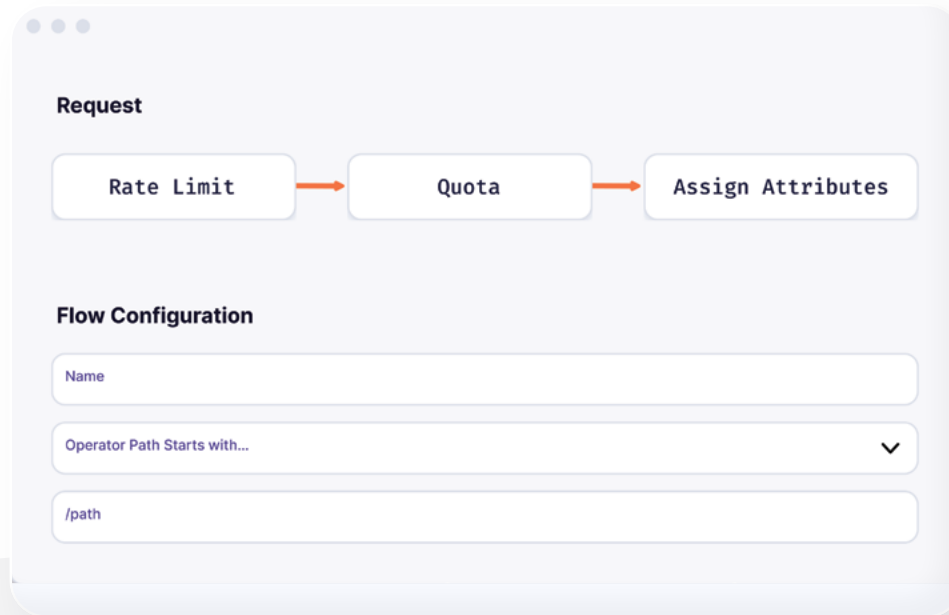
Access API Designer via Cockpit, Gravitee's SaaS environment management and administration solution.

SHIFT LEFT API DESIGN TESTING

Mock policies make it quick and easy to "Shift Left" your API testing, as it allows you to simulate servers' response(s) and check that requirements are met before code is written and/or that API is actually implemented.

API Management

(OSS)



Gravitee API Management is a flexible, lightweight and blazing-fast Open Source solution to effortlessly control who, when and how users access your APIs.

A GATEWAY THAT'S BUILT ON JAVA AND IS MORE PERFORMANT THAN THE OTHERS.

The Gravitee.io Gateway was intentionally built on Java for ultimate interoperability and performance.

WE WON'T TAKE YOUR UI AND DASHBOARD AWAY. EVER.

A fully-open source Gateway means that you'll get the Gravitee APIM UI and dashboards forever. And not just for a two or four week trial.

HIGH PERFORMANCE GATEWAY.

When we've run the comparisons, we've found that our Gateway is at least 4x more performant than other solutions like popular API Management solutions.

POLICY DESIGN

Easily shape traffic reaching the gateway by configuring everything from quotas, rate limits and custom attributes using an intuitive flow editor.

ANALYTICS & REPORTERS

Gravitee offers built-in analytics and metrics reporters that support file, TCP, Kafka, and more

DEVELOPER PORTAL

Deploy your APIs to the Gravitee API Developer Portal, and give your consumers one place to browse APIs, subscribe and request access, view API analytics, and more.

DEBUG MODE

Easily debug your API flows during the Design phase and avoid common design errors. Quickly identify and resolve issues with your APIs before they become issues for your API consumers.

LOGGING AND AUDIT TRAILS

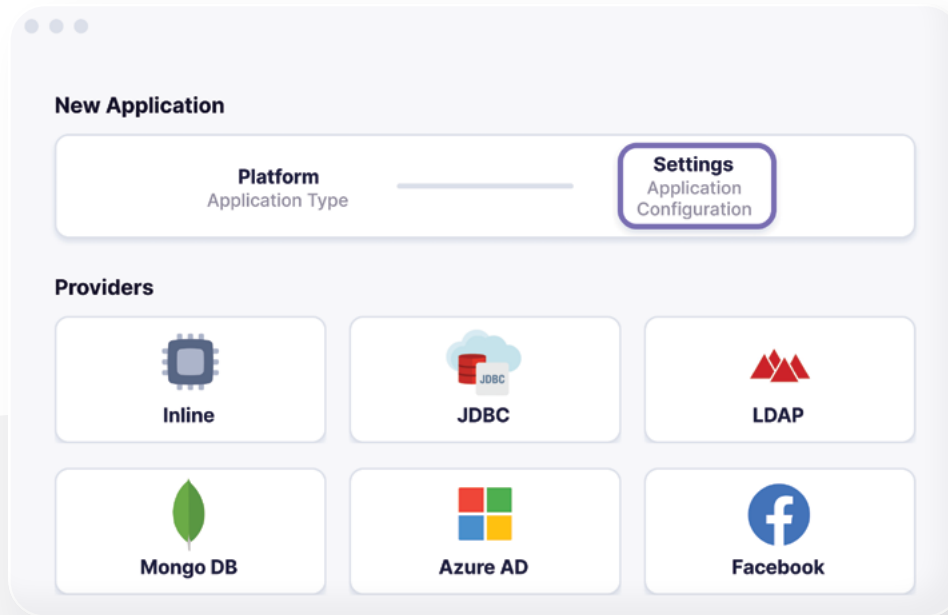
You can use the APIM audit trail for monitoring the behavior of your API and platform over time.

LOAD BALANCING AND FAILOVER

Gravitee supports multiple load balancing types to ensure full control and scalability of your traffic, and full failover control to ensure API requests are always satisfied monitoring the behavior of your API and platform over time.

Identity and Access Management

(OSS with enterprise add-ons available)



Gravitee Identity and Access Management is an easy to use, open source solution to effortlessly secure applications and APIs through authentication and authorization services.

SINGLE SIGN-ON

Build centralized, strong authentication and Single sign on for all of your customers.

SUPPORT FOR POPULAR IDENTITY PROVIDERS

We offer default support for identity provider types, including social providers such as Facebook, Google or Twitter, and enterprise providers such as Active Directory or database providers.

BOT DETECTION

Proactively detect potential bots and malicious behavior to keep your API landscape secure.

AUDIT TRAIL

Access Management includes an audit trail feature to record the set of events taking place when users interact with AM.

MFA

Multi-factor authentication (MFA) provides a way to add an additional step during the login flow in order to enforce access control.

CUSTOM IDENTITY PROVIDERS

Create your own custom Identity Providers with Gravitee Access Management.

BIOMETRIC, PASSWORDLESS, AND WEBAUTHN

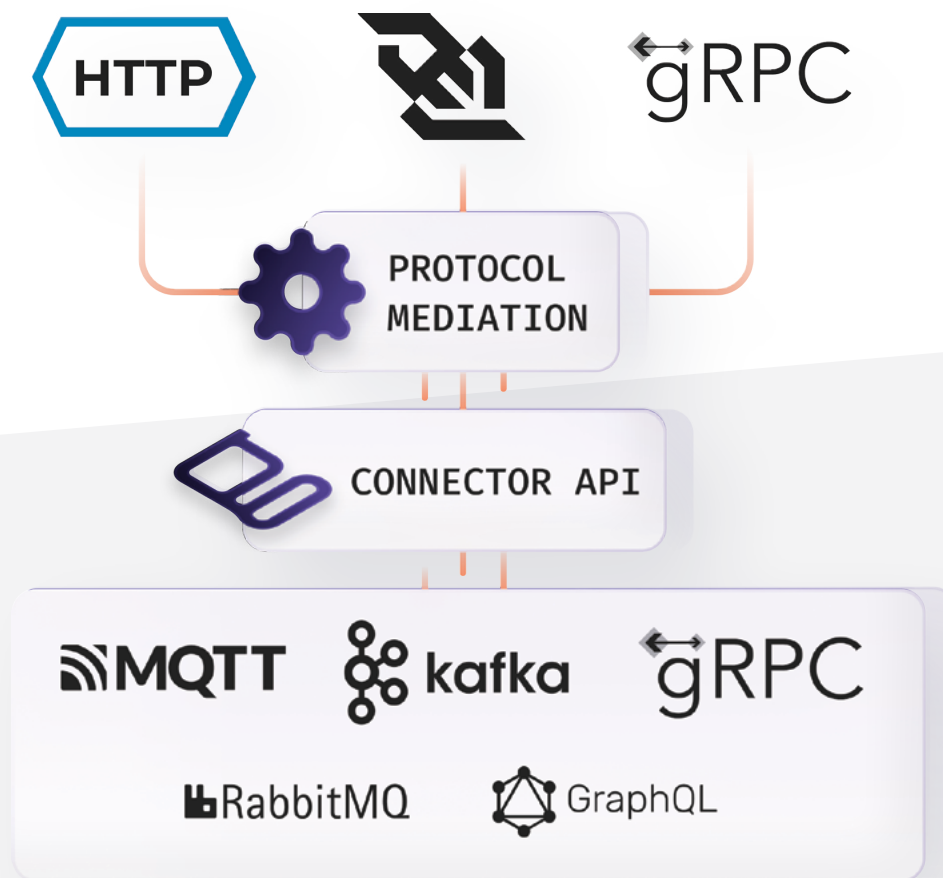
Build auth via biometrics like facial recognition and fingerprint, tokens, and other passwordless, and webauthn mechanisms.

CERTIFICATE CREATION & MANAGEMENT

Cryptographic algorithms such as KeyStore (private/public key) are used to sign using JSON-based data structures (JWT) tokens. Create and manage certificates with Gravitee.

Service Management Ecosystem

(OSS with enterprise add-ons)



With Gravitee, you can apply traditional API Management capabilities to Events.

PROTOCOL MEDIATION

The Gravitee Gateway can act as a protocol mediation layer between consumers of a service and backend services.

KAFKA CONNECTOR

Ingest data from your Kafka cluster by exposing an HTTP endpoint that natively transforms requests into Kafka records. You can also stream your Kafka events to consumers with web-friendly protocols such as HTTP or Websocket, and provide real-time integration capabilities to your ecosystem.

PLUGINS

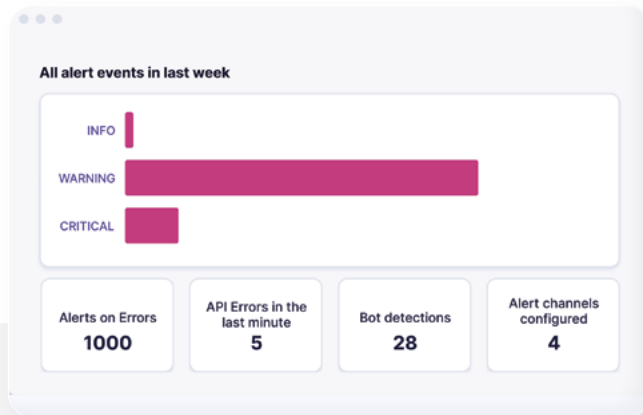
Gravitee's SME connector consists of a single unit of code and/or package that can be deployed in the Gravitee platform. This enables native connections with a myriad of backend services (i.e. Kafka, HTTP, MTT JDBC).

CONNECTOR API

The Gravitee Connector API provides a framework for any backend protocol to be proxied through the Gravitee API Gateway. You can also bring your own SME connector for ultimate extensibility.

API Monitoring and Alert Engine

(Enterprise only)



Isolate, understand, and remediate for API performance and security risks before they cause a problem for your customers with an Alert Engine that's hooked up to your AM and APIM consoles.

MULTI-CHANNEL NOTIFICATIONS

Easily configure automated alerts when SLAs are at risk of being breached via email, webhooks, or with popular collaboration tooling like Slack or MSTEams.

BI-DIRECTIONAL NOTIFICATIONS

Configure alerts for both your internal teams and your API users if issues arise.

CONDITIONS

Set conditions that, when met, will trigger alerts and notifications.

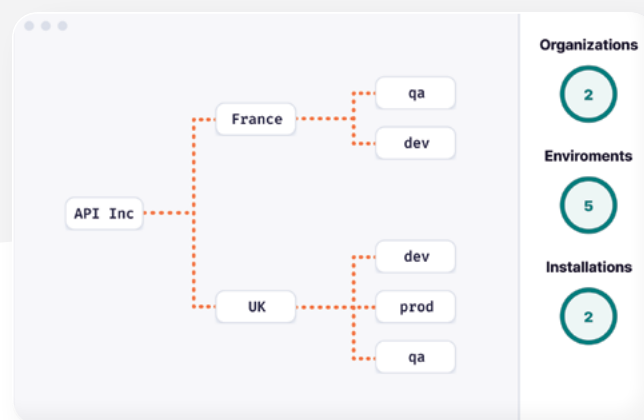
DAMPENING

When a condition is validated many times in a very short period, there is a risk of flooding users with notifications. To mitigate this, AE includes the concept of dampening.

Cockpit: enterprise environment management

(Enterprise free version with enterprise add-ons)

With Cockpit, Developers, API PM's, and Architects can easily manage all of their prod and non-prod Gravitee API Management and Access Management environments.



SAAS READY

Cockpit is a SaaS offering that's easy to set up and can manage both cloud-hosted and on premises APIM and AM environments.

MANAGE APIM AND AM ENVIRONMENTS

Manage all of your enterprise, OSS, prod, and non-prod API Management and Access Management environments across your entire organization with one SaaS control plane.

API PROMOTION

Promote APIs across different Gravitee environments.

BREAK FREE OF ENVIRONMENT LIMITS

Break free of the "1 environment = 1 installation" limit, allowing 1 installation for "N" logical environments, and therefore you can reduce overall Gravitee-related infrastructure footprint and costs

Gravitee plugins

(OSS with enterprise offerings)

In addition to our main product offerings, we also offer a broad set of both OSS and enterprise plugins to make your Gravitee platform even more extensible.

These plugins range from policies, identity providers, tracers, reporters, protocol and backend service connectors, extension APIs, and more. They also vary from being meant for API Management and Access Management. Some also come in the default APIM and AM bundles, respectively.

The list below is only meant to list out aloof the plugins that we currently offer. For more information on our plugins, please see our documentation or reach out to the Gravitee team.

ENTERPRISE PLUGINS

Data logging masking policy	Assign metrics policy	Snaplogic integration	CAS Identity Provider
Kerberos Identity provider	SAML 2.0 Identity Provider	HTTP Flow Identity Provider	

OSS PLUGINS

Mock policy	OAuth 2 policy	JSON Web Token validator policy	JSON validation policy
XML validation policy	WS Security Authentication Policy	RateLimit policy	Latency policy
Request validation policy	IP filtering policy	HTTP Signature Validator Policy	Generate HTTP Signature Policy
JWS validator policy	Override HTTP method policy	Regex threat protection policy	Dynamic routing policy
HTTP callout policy	Circuit Breaker Policy	OpenID Connect user info policy	Cache policy
Assign content policy	Assign attributes policy	Generate JWT policy	API key policy
JSON to XML transformation policy	Keyless policy	XSLT transformer policy	Role-based access Control policy
Metrics Reporter policy	Transform query parameters policy	Transform query parameters policy	XML to JSON transformation policy
JSON to JSON transformation policy	Basic authentication policy	XML threat protection policy	URL rewriting policy
JSON threat protection policy	REST to SOAP policy	Request content limit policy	Resource filtering policy
SSL enforcement policy	AWS Lambda	Traffic Shadowing	Transform headers policy
Javascript policy	Groovy policy	Retry policy	Redis Cache Resource
Auth Provider Resource	Gravitee.io Access Management Resource	keycloak Adapter Resource	HTTP Authentication Provider
Generic OAuth2 Authorization Server Resource	LDAP Authentication Provider	Cache Resource	gravitee-service-discovery-consul
Gravitee Service Discovery Eureka Plugin	Slack Notifier	Email Notifier	Webhook Notifier
Gitlab Fetcher	GIT Fetcher	HTTP Fetcher	Bitbucket Fetcher
GitHub Fetcher	Jaeger Tracer	Kafka Reporter	File Reporter
TCP Reporter	SME HTTP Connector	SME Kafka Connector	SME Connector API
Fetcher API	Reporter API	Identity Provider API	Resource API
Policy API	Service Discovery API	Cache resource Provider API	Notifier API
Platform Repository API	Gravitee.io - APIM Reporters Configuration	Gravitee.io CLI	GeoIP service
gravitee-am-app-sandbox-android	gravitee-am-app-sandbox-angular	gravitee-am-app-sandbox-ios	Azure AD Identity Provider
Facebook Identity Provider	France Connect Identity Provider	Github Identity Provider	Google Identity Provider
HTTP Identity Provider	Inline Identity Provider	JDBC Identity Provider	LDAP Identity Provider
LinkedIn Identity Provider	MongoDB Identity Provider	OIDC Identity Provider	SalesForce Identity Provider
Twitter Identity Provider	AM File Reporter	AM JDBC Reporter	AM MongoDB Reporter
AM Kafka Reporter	AM Twilio Resource	AM Infobip Resource	AM SMTP Resource
AM SMS MFA	AM Email MFA	AM Voice Call MFA	AM TOTP MFA
AM FingerprintJS Device Identifier	AM FingerprintJS Pro Device Identifier	AM Google Recaptcha V3 Bot detection	

Major differences **between Gravitee OSS and enterprise offerings**

We'll be the first to say it: choosing Gravitee's enterprise edition doesn't make sense for everybody. Sometimes, the open source product is the right solution at the right time. To make it easier to decide what's right for you, we've included this table that highlights why somebody would choose open source vs enterprise editions of Gravitee.

You might want to check out

gravitee.io OPEN SOURCE	gravitee.io ENTERPRISE
You only need a solution to manage a small handful of APIs	You want real-time, 24/7 support
You don't need support services	You want dedicated Customer Success Services
You don't need Customer Success services and are happy with OSS community support	You are interested in API Monitoring and Alerting
You don't need or aren't worried about managing infrastructure for multiple environments and Gravitee deployments	You want to reduce infrastructure footprint as much as possible by consolidating environments and instances
You are happy with using our user feedback portal to make suggestions around product direction and roadmap	You are interested in API Design-First design solutions
	You need security and privacy measures like data logging masking
	You are interested in dedicated product roadmap review sessions and engagements with our R&D team

Real-world **Proof**

Don't just trust us. Here's a testimonial from one of our customers who is currently innovating the car sharing business through APIs:



Gravitee is flexible enough that we could also set and evaluate headers and define rate limiting levels for each user profile. We are aiming to manage all of our users and applications with Gravitee's API Management platform to provide our customers with a single way to access our services without requiring multiple logins and authentication mechanisms.

— **INVERS**

OVER 350,000+ DOCKER PULLS PER MONTH AND TRUSTED BY THOUSANDS OF USERS



Sedex

xylem

Auchan

tide

april

SWISS POST

Our commitment to **Open Source.**

Gravitee is committed to promoting and developing open source solutions. We were founded as an open source company and have remained strong contributors ever since.

Our very ethos is centered around how we can continue to make Gravitee the most feature-packed open source API solution on the market. To this end, we believe we have achieved that objective: No open source solution comes close to Gravitee as it relates to depth and breadth of functionality.

It isn't just about code. We're building a thriving community of like-minded developers to ensure you get the support and service needed for mission critical systems such as API management.



Who we **are**

In 2015, 4 freelance developers met while working on API strategy and implementation. Immediately, these 4 knew that API tech was unnecessarily complex — and together, they could build a complete API lifecycle toolset that gave business owners effortless control over their entire API ecosystems.

Passionate about simplicity and determined to make API design accessible for all, Gravitee.io was founded. Now, with a no-code approach and a commitment to the open source community, Gravitee.io offers the leading, complete API management platform.

OVER

350,000+

DOCKER PULLS PER MONTH

Series A

OF \$11M FUELS HYPER-GROWTH

100+

GLOBAL BRANDS USING GRAVITEE

100%

CUSTOMER RETENTION

ISO 27001

CERTIFIED

RANKED AS

9th Fastest

GROWING OPEN SOURCE STARTUP

How to **Contact Us**

gravitee.io/contact-us

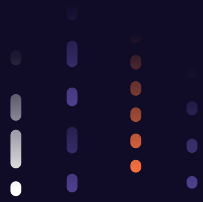
If you're interested,
and want to reach out,
you can contact us here

gravitee.io/demo

If you'd like to skip (some of)
the Sales pitch and see a demo,
you can book one of those here

community.gravitee.io

If you want to give OSS a go,
check out our community forum,
where you can find links to our
github repo and connect with
the folks who have driven over
350,000 Docker pulls / month



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